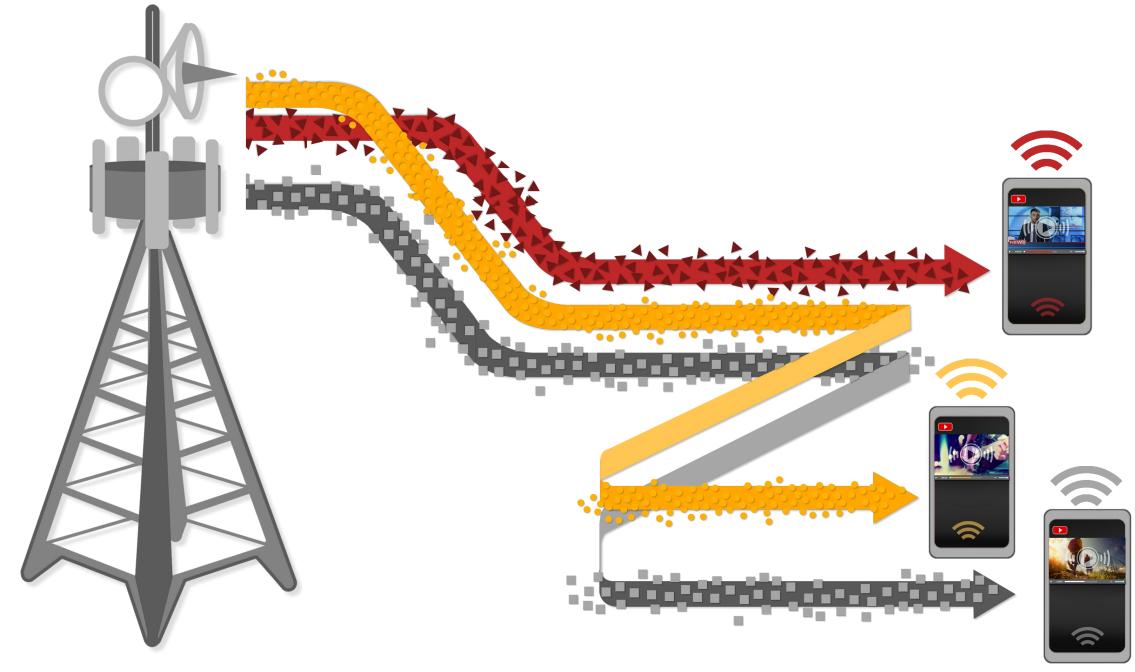


SAFE HARBOR STATEMENT

This document contains forward-looking statements. The words "believe," "may," "will," "potentially," "estimate," "continue," "anticipate," "intend," "could," "would," "project," "plan," "expect" and similar expressions that convey uncertainty of future events or outcomes are intended to identify forward-looking statements. Forward-looking statements may address the following subjects among others: the status of filter designs under development, the prospects for licensing filter designs upon completion of development, plans for other filter designs not currently in development, potential customers for our designs, the timing and amount of future royalty streams, the expected duration of our capital resources, our hiring plans, the impact of our designs on the mobile device market, and our business strategy. Forward-looking statements are inherently subject to risks and uncertainties which could cause actual results to differ materially from those in the forward-looking statements, including, without limitation, the following: our limited operating history; our ability to complete designs that meet customer specifications; the ability of our customers (or their manufacturers) to fabricate our designs in commercial quantities; the ability of our customers to sell products incorporating our designs to OEMs; our dependence on a small number of customers; the ability of our designs to significantly lower costs as compared to other designs and solutions; the risk that the intense competition and rapid technological change in our industry renders our designs less useful or obsolete; our ability to find, recruit and retain the highly skilled personnel required for our design process in sufficient numbers to support our growth; our ability to manage growth; and general market, economic and business conditions. Additional factors that could cause actual results to differ materially from those anticipated by our forward-looking statements are under the captions "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our most recent Annual Report (Form 10-K) or Quarterly Report (Form 10-Q) filed with the Securities and Exchange Commission. Forward-looking statements are made as of the date of this document, and we expressly disclaim any obligation or undertaking to update forward-looking statements.

We may refer to information regarding potential markets for products and other industry data. We believe that all such information has been obtained from reliable sources that are customarily relied upon by companies in our industry. However, we have not independently verified any such information.

NEXT GENERATION PHONES ARE DEPENDENT UPON INCREASING DEMAND FOR BANDWIDTH



RF Front End (RFFE) Ensures Voice, Data and Video Calls Are Delivered Correctly Resonant is transforming the way RFFEs are Designed and Delivered

RESONANT IS THE ONLY PURE PLAY SOFTWARE & IP GROWTH OPPORTUNITY FOCUSED ON MOBILE FILTER MARKET

\$\$\$

- Filter market is \$9B today growing to
 \$28B by 2025
 - Market will require >3x number of filters
 - o **5G** is ramping
 - Filter companies are constrained by designer availability
- Infinite Synthesized Network (ISN) software creates designs faster, better, and cheaper
 - Design efficiency is up to 5x greater than other filter designers
 - Design turns reduced by up to 10x
- IP and Trade Secrets creating core value
 - Latest development targeting 5G
- Business model
 - Licensing based on filter sales

PEOPLE ISN **MODULES** Intelligence) Process Design Kit Performance Visualization IP (Competitive Finite Element Simulation Tool Layout CompareX Electromagnetic **DESIGNS:** Simulation **CUSTOM** Fab Process Control **DESIGN: LIBRARY** Measurements dB

Sources: Yole Developpement

SUMMARY OF COMPANY STATS

Corporate Overview

Founded: May 2012

IPO: May 2014

Employees: 65+ employees

Cash &

investments: \$26.4M

as of September 30, 2018

Business Model: Licensing-Per Unit Royalty

Customers: 11 customers

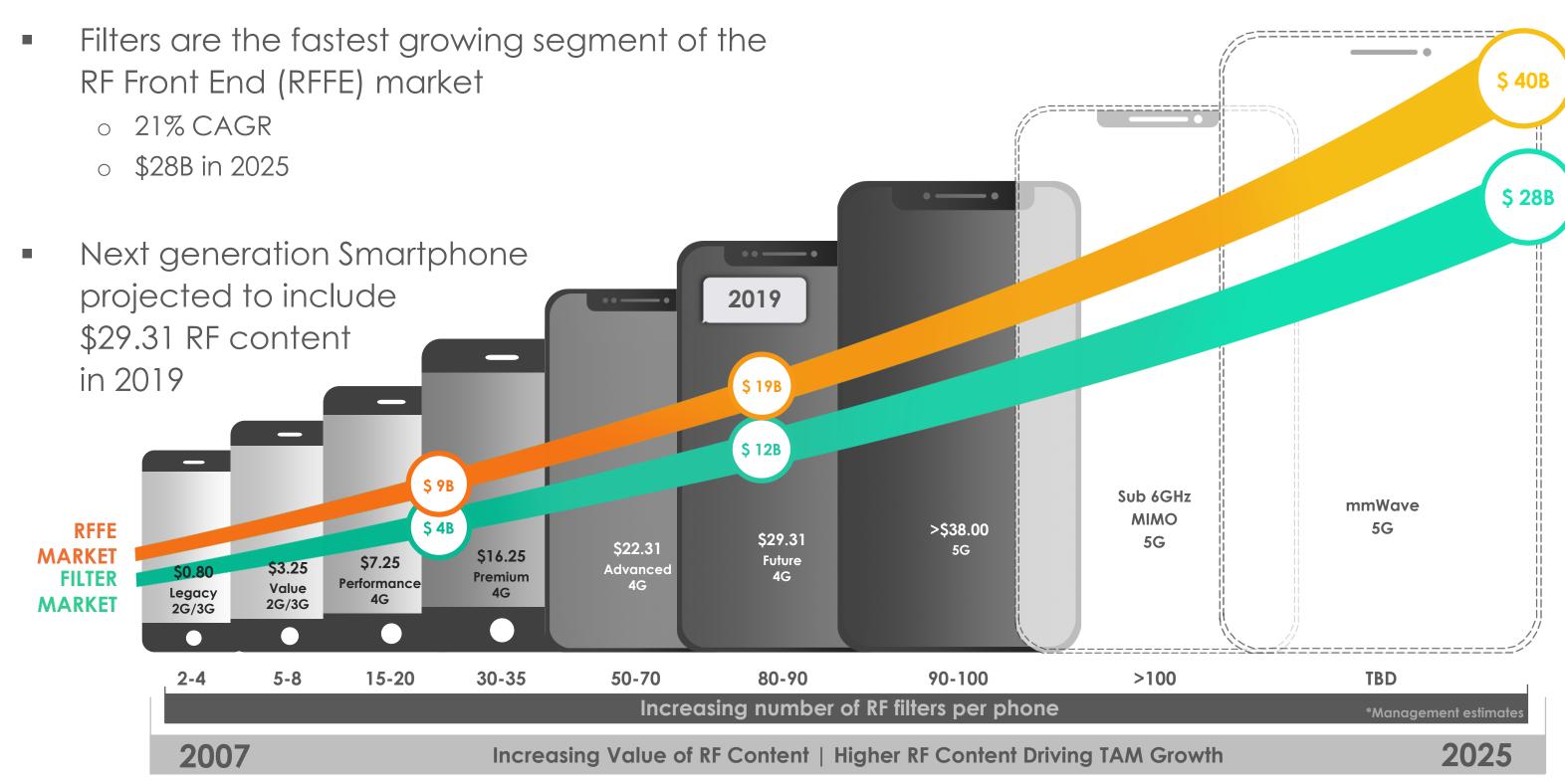
Foundry Partners: 7 partners

Market Validation: 70+ devices contracted

Patents: >165 filed or issued



RF FRONT END ENABLES MOBILE PHONE GROWTH



Sources: Yole Developpement, Navian, Barclays, Management Estimates

5G's IMPACT ON THE RF FRONT END - DESIGN CAPACITY

Design capacity must increase by up to 8x by 2025 to maintain share

Design capacity constrains market¹

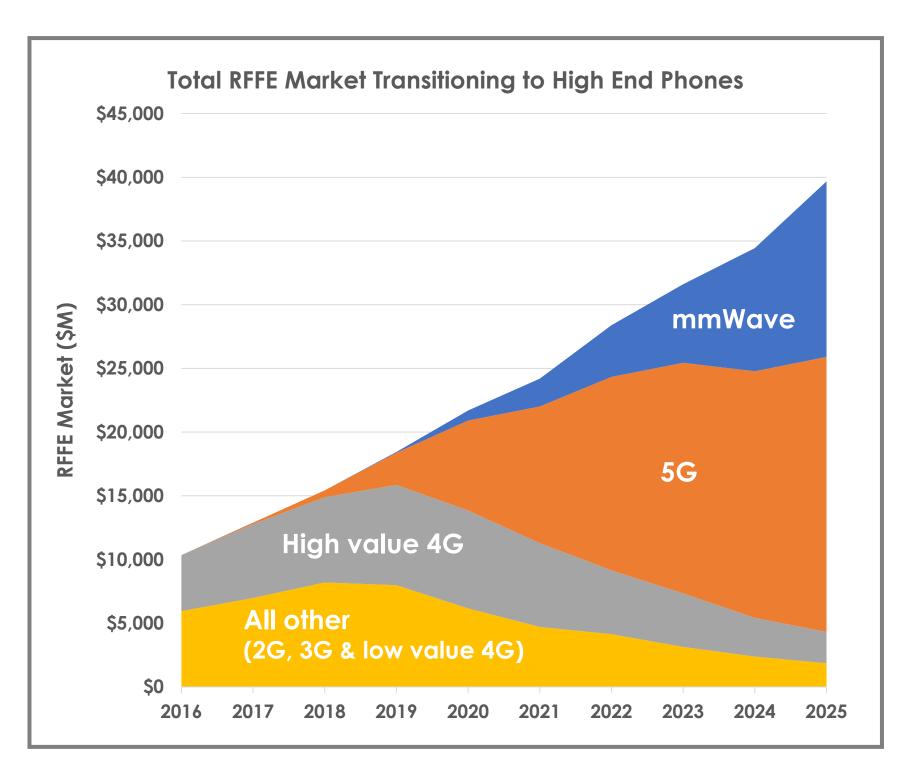
 Resonant is positioned to support entire RF spectrum with ISN platform; improving design efficiency by up to 5x

Legacy design methodology increases costs and slows development by utilizing fab turns to deliver designs

 Resonant's ISN platform enables fewer turns (up to 1-2) to deliver functional designs

High value 4G continues to be meaningful

 Resonant's Filter IP Standard Library of products enables new customer and suppliers to enter market



Sources: Yole Developpement, Management Estimates

1. Design capacity increase assumes for customer targeting current share in new phone market which has 3-4x greater filters per phone



5G's IMPACT ON THE RF FRONT END - TECHNOLOGY

5G demands larger bandwidth that is only available at higher frequency

5G Requirements	XBAR
Large bandwidth 100's of MHz vs. 10's of MHz	
High frequency (3GHz - 80GHz) Only frequencies where large bandwidths are available	
Power handling High frequency = less propagation Overcome with higher power to increase coverage	
High quality factor, Q, of resonator structure Determines rejection and loss of the filter Particularly challenging at high frequency	

Based upon simulation results Initial measured verification in process

What is XBAR?

- Proprietary resonator structure based on existing process technologies developed using ISN
 - IP/ XBAR based library products for 5G

ISN®: NEXT GENERATION DESIGN PLATFORM

RESONANT

FUNDAMENTAL | RIGOROUS | SCALABLE | DEFENDABLE

CURRENT FILTER DESIGN UTILIZED BY MOST MANUFACTURERS

Image DesignAcoustic Wave Ladder

Modern Filter Theory

Coupling of Modes

Model | COM

Empirical Optimization & Simulation

Aggregated Physical Properties
Velocity of Surface Waves
Reflectivity of Surface Waves

1900s

O

1950s

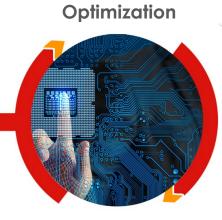
2000s

Acoustic Wave Network Synthesis

RF Circuit Models



Fundamental Physical Models



Simulation

RF Circuits

Inductance | Voltage



RF Circuit Integration

Fundamental Physical Properties Density | Dimensions



Fab Integration



oday

Current filter design process:

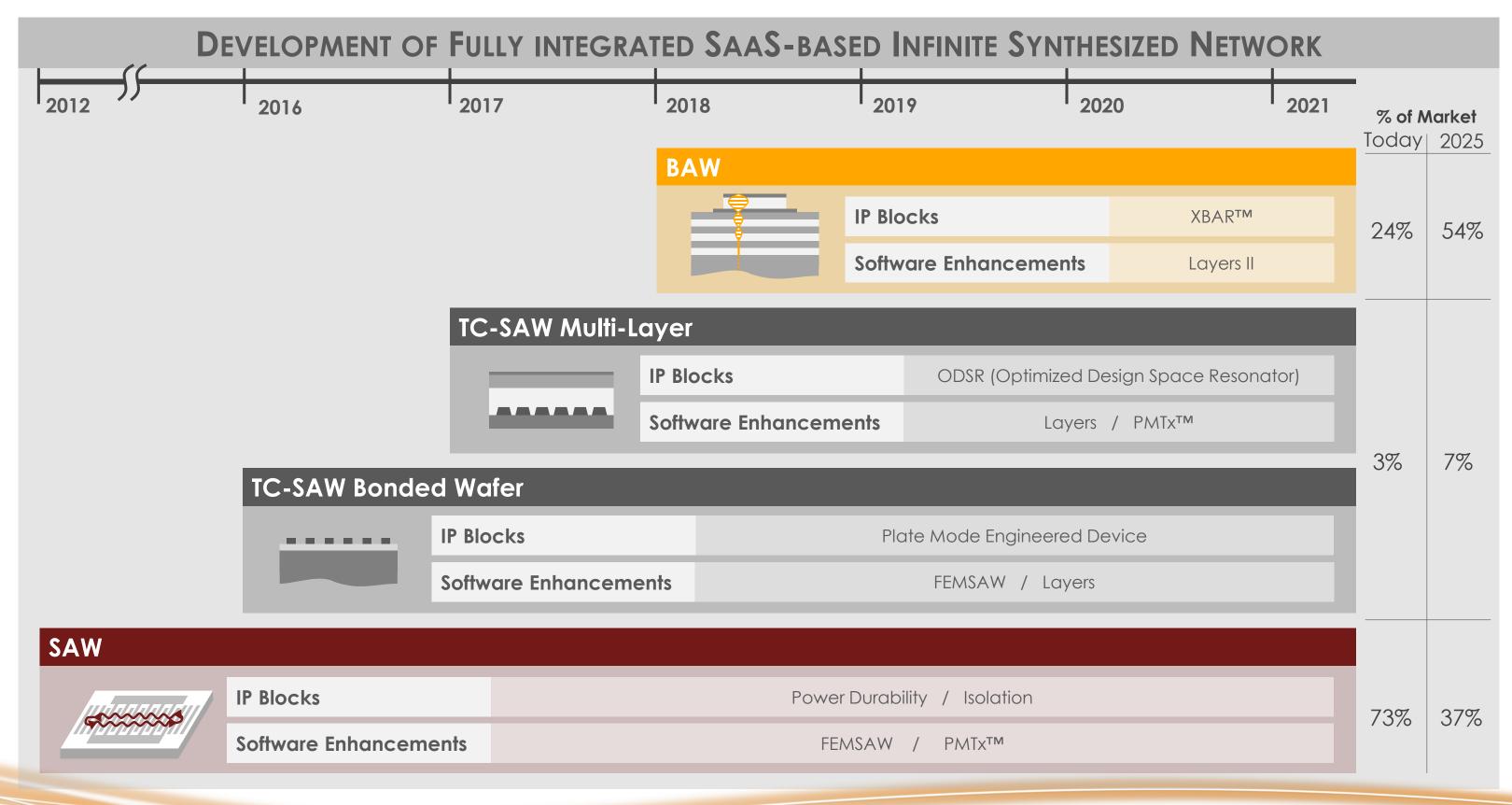
- Many iterations: long / expensive
- Limited design space: Bandwidth, power
- Limited to "captive" fab

ISN Value:

Order of Magnitude Improvement in:

- Development time
- Cost

ISN® IMPACTS DESIGN EFFICIENCIES FOR ALL FILTER TECHNOLOGIES

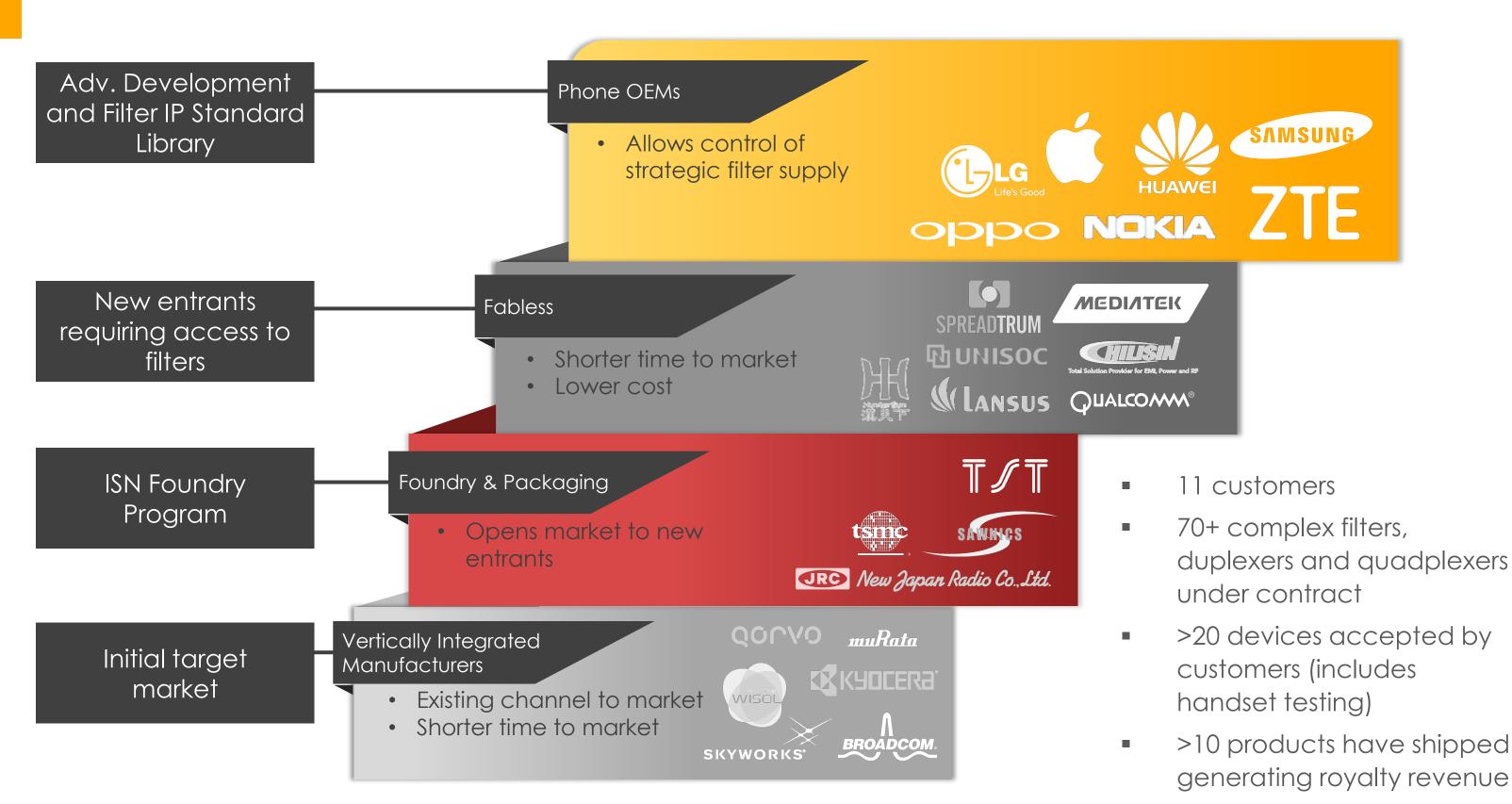


RESONANT

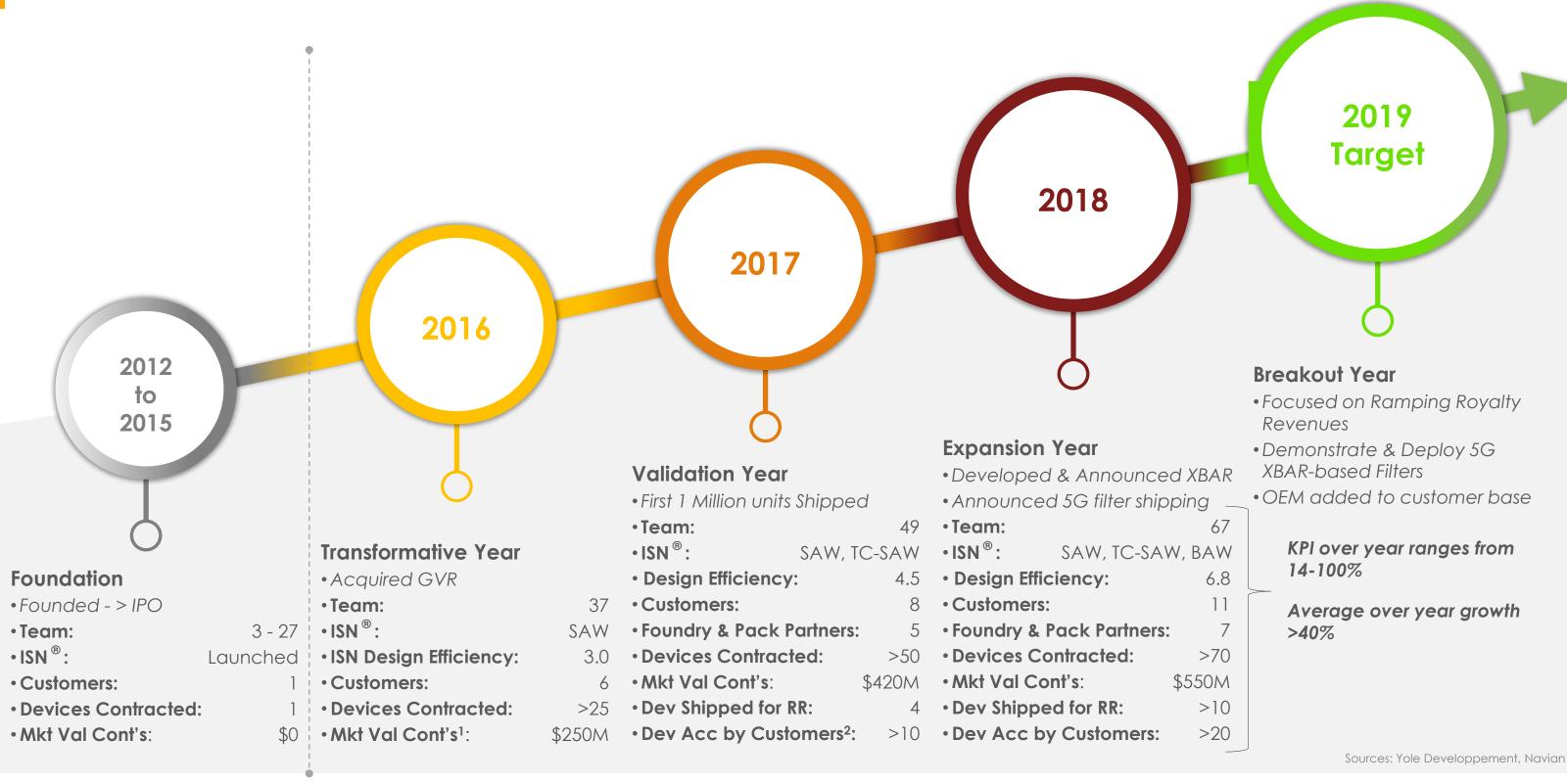
Sources: Yole Developpement, Navian

NASDAQ: RESN | 10

RESONANT IS TARGETING ENTIRE FILTER MARKET



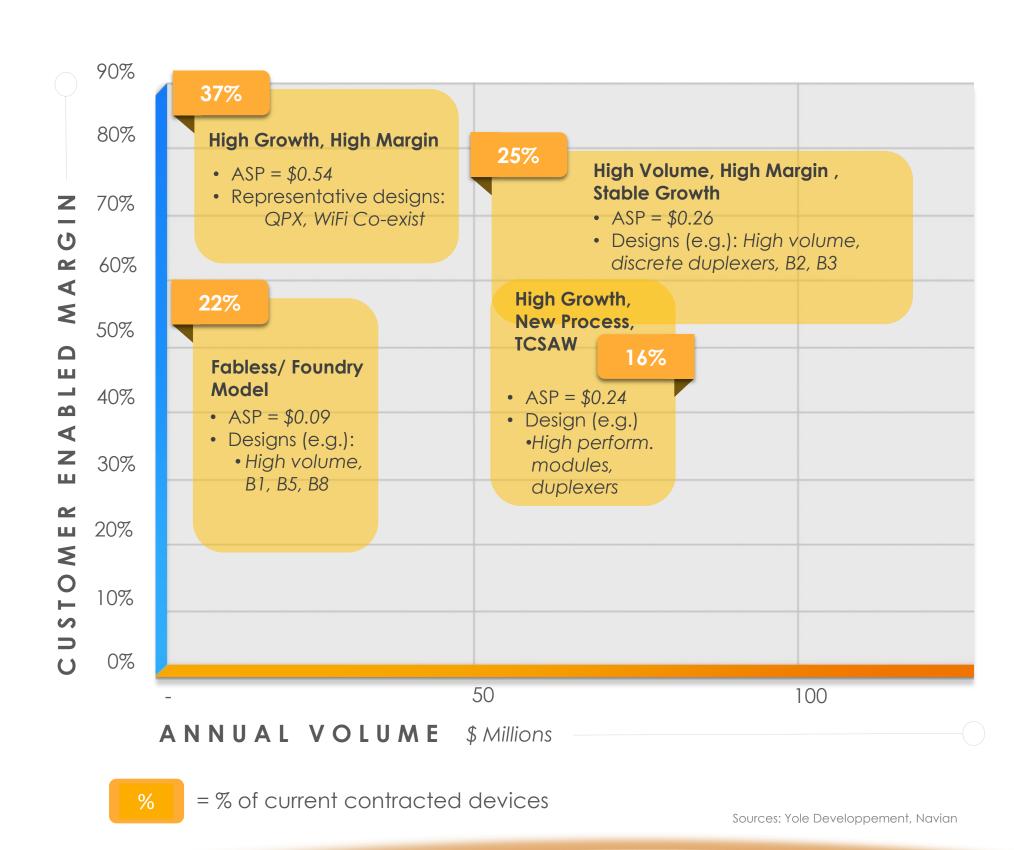
2019 BUILDS ON MOMENTUM



- 1. Device accepted by customer defined as customer has passed device handset testing
- 2. Design efficiency is the number ISN ready designs one designer can produce in a year. ISN ready designs use a qualified FAB process with industry competitive performance. A qualified FAB process includes confirmed performance with the FAB in the band

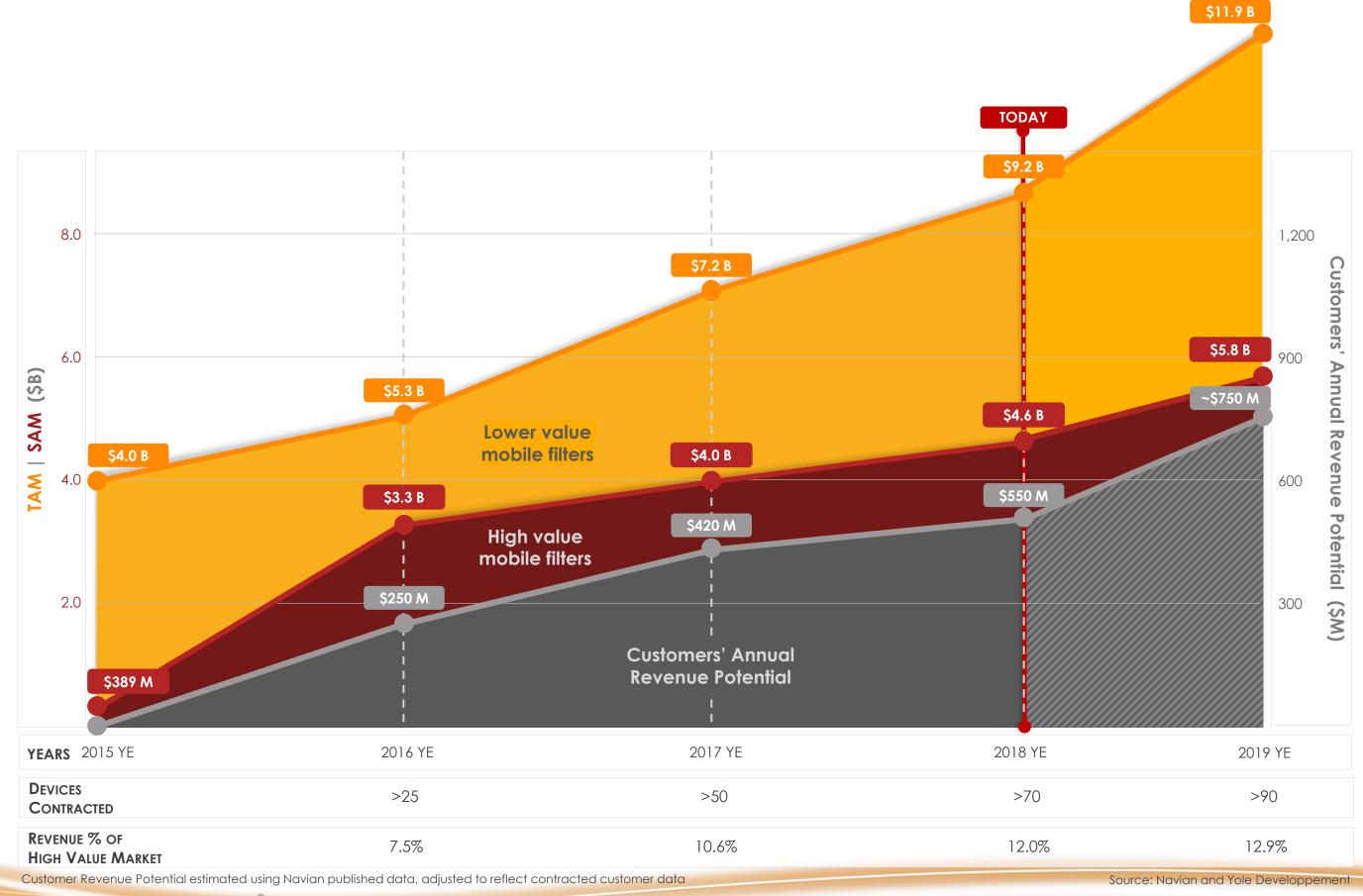
RESONANT IS TARGETING HIGH ASP & HIGH GROWTH SEGMENTS

- >20 designs accepted by our customers
- >10 products shipped generating royalty revenue
- Contracted royalty rates generally in the range of 10% - 20%
- Targeting 30% 70% success rate of contracted designs resulting in royalty
- Time from contract to customer acceptance varies based on technology, ranges between 6 and 18 months



RESONANT

POTENTIAL CUSTOMER ANNUAL REVENUE ENABLED BY RESONANT



EXECUTIVE TEAM



George Holmes
CEO & Director

30+ years leadership in sales & marketing and management



SOLARBRIDGE

agere



Marty McDermut
CFO

30+ years in financial and accounting management;
CPA







CTO & Co-founder

20+ years as Founder and CTO of STI; Physics Ph.D. Caltech









Neal Fenzi

Executive Vice
President of Engineering
& Co-Founder

20+ years in engineering, operations and marketing positions at STI; BSEE







INDEPENDENT BOARD MEMBERS

John Major	Brett Conrad	Janet Cooper	Michael Fox	Alan Howe	Jack Jacobs	Josh Jacobs	Jean Rankin	Bob Tirva
Chairman & Independent Director	Independent Director	Independent Director	Independent Director	Independent Director	Independent Director	Independent Director	Independent Director	Independent Director
Multiple board memberships with public and private high-tech companies	Experience in building and selling companies. Capital markets expertise	Financial expertise in capital markets, audit, tax, accounting, treasury and risk- management	Financial expertise in capital markets, shareholder interests and strategy	Operational, corporate finance, business devt. and leadership exp. Strategic in-depth knowledge of the wireless, telecom, high technology and software industries	Public company, corporate governance and leadership experience	Extensive experience commercializing technologies	Governance, compliance, regulatory and licensing expertise within the semiconductor industry	Extensive corporate and managerial finance experience in IT & services and semiconductor industries
BROADCOM. MOTOROLA	LONGBOARD CAPITAL ADVISORS	TORO. LENNOX INTERNATIONAL	park city capital J.P.Morgan	BROADBAND Initiatives, LLC COVAD° TELETRAC NAVMAN	MSNBC FITZROY	MAVENT KIK. Omnicom/Media/Group	Lucent Technologies	INTERMEDIA Dropbox BROADCOM.
		Qwest.		Sprint	Bankers Trust.	INVOCA		

SUMMARY FINANCIAL INFORMATION

Sep 30, 2	2018		
		(\$ in M)	
Cash, investments & equivalents	\$	26.4	
Other current assets		0.4	
Long-term assets		4.2	
Total assets	\$	31.0	
			no debt
Total liabilities	\$	2.7	
Stockholders' equity		28.3	
Total liabilities and stockholders' equity	\$	31.0	

Shares outstanding 27.0 M



SUMMARY

- Positioned for 2019
 - Cash and investments \$26.4M (Sept 30, 2018)
 - More than 10 devices have shipped for royalty revenue; devices are in distribution and sampling to OEM's
 - Greater than 20 devices accepted by customers; acceptance criteria includes handset testing
 - Complete ISN software suite: ISN supports SAW, TC-SAW & BAW with new cutting edge IP focused on 5G XBAR Resonantors
- Market continues to grow, 21% CAGR; RF front-end industry is undergoing dramatic increases in filter demand and complexity for bandwidth driven by:
 - Band Proliferation
 - Carrier Aggregation
 - 5G
- Resonant's revolutionary ISN® platform expected to disrupt the RFFE supply chain and enable new entrants into a market that has been dominated by only a few large players
- New BAW & XBAR solutions expected to deliver 5G designs through Filter IP Standard Library
- Resonant continues to retire risk through execution both internally and externally

Sources: Yole Developpement, Naviar

